DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-002916
Date Inspected: 29-Nov-2010

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact: Don Walton
Quality Control Present: ☑ Yes ☐ No
Material transfer: ☐ Yes ☐ No ☑ N/A
Sampled Items: ☐ Yes ☐ No ☑ N/A
Stock Transfer: ☐ Yes ☐ No ☑ N/A
OK to Cut: ☐ Yes ☐ No ☑ N/A
Rebar Test Witness: ☐ Yes ☐ No ☑ N/A
Delayed/Cancelled: ☐ Yes ☐ No ☑ N/A
Other: Coatings Inspection
Bridge No: 34-0006
Component: OBG, Sub-Assemblies (OBG) and Office.
Bid Item: 77, 78, 79
Lot No:

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG

11BE and 11CE OBG Internal Weld Seam Connection Surface, NOI Number 5177: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 11BE and 11CE OBG Internal Weld Seam Connection Surface. Surface profile readings x3 with recorded range 74 to 82 µm. No discrepancies noted but ambient conditions are unsatisfactory. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point after verification of ambient conditions.

12BE OBG Internal Ceiling Surface, NOI Number 5178: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 12BE OBG Internal Ceiling Surface for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to unsatisfactory coating installation. Defects include run/sags, dry spray and out of range DFT readings.

12BE OBG External Surface, NOI Number 5180: In preparation for mist coat installation of Interfine 979

Polysiloxane, the Interzinc 22 undercoat on 12BE OBG External Surface was tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ISO 11127-6, ISO 11127-7 (Residual Chlorides) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). Test results recorded x2 soluble salts reading of 12.7 and 14.9 (µs/cm) and x5 MEK resistance 5 @ grade 5. No discrepancies noted but ambient conditions are unsatisfactory. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point after verification of ambient conditions.

11BE and 11CE OBG Internal Weld Seam Connection Surface, NOI Number 5182: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 11BE and 11CE OBG Internal Weld Seam Connection Surface. No discrepancies noted but ambient conditions are unsatisfactory. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point after verification of ambient conditions.

Sub-Assemblies (OBG)

Crash Barrier External Surfaces (7 Each), NOI Number 5179: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the final coat installation on Crash Barrier External Surfaces (7 Each). ABF and ZPMC QA/QC recorded final surface dry film thickness readings (DFT) in accordance with SSPC-PA2. No discrepancies noted.

Hinge FB3328, NOI Number 5181: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Hinge FB3328 for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to holidays and low DFT readings.

Hinge FB3328 (1 Each) and SEG3019K-001, NOI Number 5183: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Hinge FB3328 for dry film thickness (DFT) compliance. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

Attend to report writing and photo documentation.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

SOURCE INSPECTION REPORT

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Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer